

STRASHUN, S.S., inzh.

Automated marine boiler-separator. Sudostreenie 25 no.4:73 Ap '59.
(MIRA 12:6)

(Boilers, Marine)

STRASHUN, S.S.

Excavating machinery for the cleaning of waste disposal lagoons.
Sakh.prom. 33 no.12:42 D '59. (MIRA 13:4)

(Kiev--Sugar industry--Equipment and supplies)
(Sewage disposal)

STIGSHUB, S., Inzh.

They will come from Kiev. Znan. ta pratsia no. 4.9 Ap '61.

(MIFA 14:5)

(Kiev--Dredging machinery)

STRAKHUN, S.

Saving nonferrous metals at the "Leninskaya Kuznitsa" Plant.
Mashinostroitel' no. 4:39 Ap '61. (MIRA 14:4)
(Kiev—Machinery industry)

JTRASHUN. S. Inzh.

"Mniak" trawler. Znan.ta pratsia no.4:20 Ap '62. (MIRA 15:4)
(Trawls and trawling)

STRASHUN, S.S.

Diesel electric dredge pump. Biul.tekh.-spon.inform.Gos.nauch.-
1991.inst.nauch. i tekhn.inform. no.6142-43 '62. (MIRA 15:7)
(Dredging machinery)

STRASHUN, S.S., inzh.

One-hundred year anniversary of the "Leninskaja Kuznitsa."
Sudostroenie 28 no.4:80 Ap '62. (MIRA 15:4)
(Kiev--Shipyards)

STRASHUN, S.S., insh.

Pumping dredger. Sudostroenie 28 no.8:63 Ag '62. (MIRA 15:8)
(Dredging machinery)

STRASHUN, S., inzh.

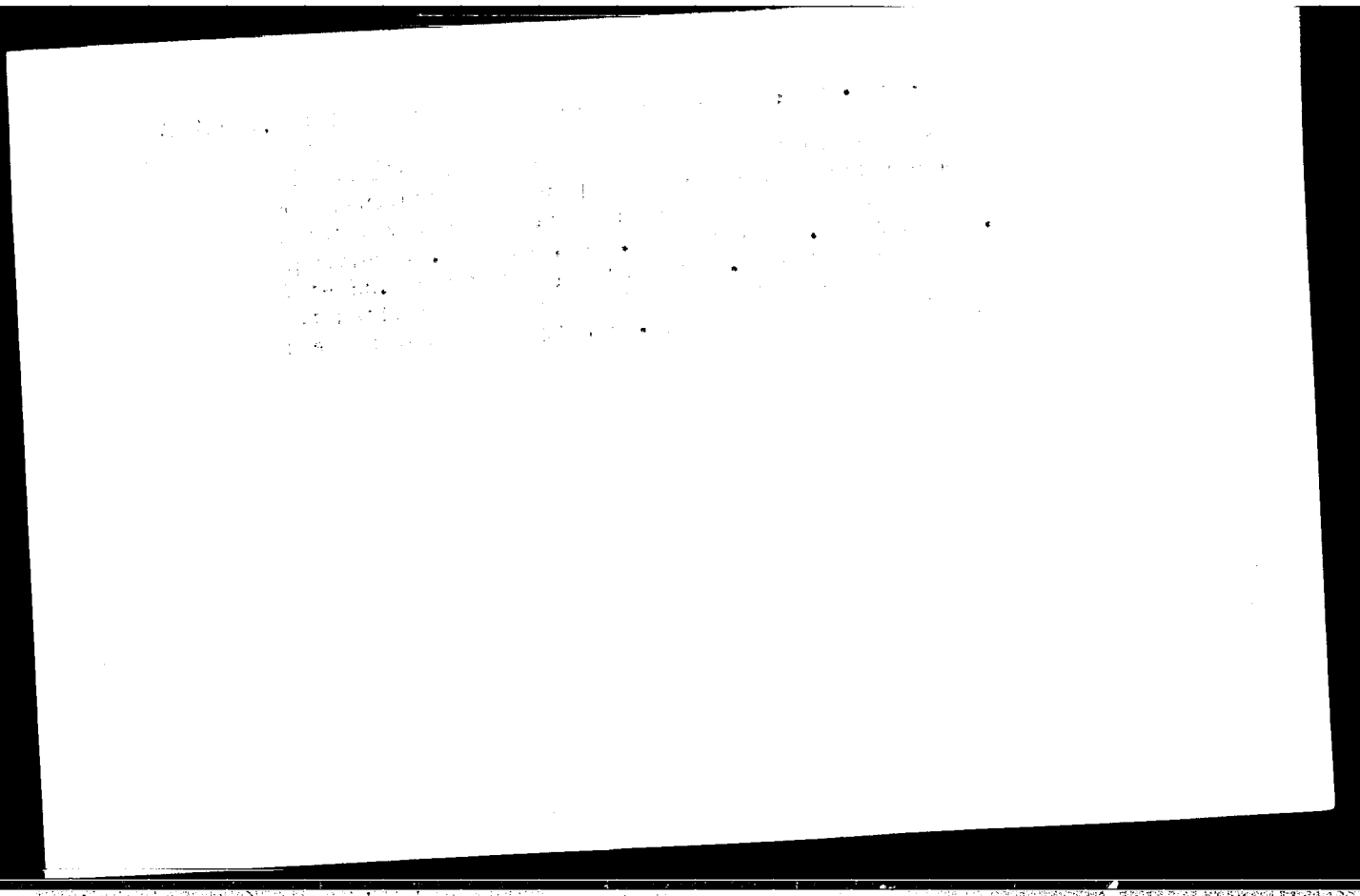
Powerful infant. Znan.ta pratsia no.8:15 Ag '62.

(MIRA 15:12)

(Dredging machinery)

STRASHUN, S.S.

Contribution of the "Lenin Forge Shop." Mashinostroitel' no.1:45
Ja '64. (MIRA 17:2)



L 43191-65 EWT(1)/EWA(h) Feb 68
 ACCESSION NR: AP5007783

S/0119/65/000/003/0004/0006

AUTHOR: Strashun, Yu. P. (Engineer)

TITLE: Some results of experimental research on triode switches

SOURCE: Priborostroyeniye, no. 3, 1965, 4-6

TOPIC TAGS: triode switch, semiconductor key, keyer tube, electronic controller, automatic control

ABSTRACT: Triode switches for dc voltages which consist of a valve and a semiconductor key are widely used in programming and coding devices of electronic controllers. Regardless of the type of semiconductor key, it should contain two transistors. A key group which switches two voltages is shown in fig. 1 of the Enclosure. The solid lines show single transistor keys, the dotted lines indicate keys based on two transistors. Assume that $U_1 > U_2$. When key K_1 is saturated, voltage U_1 passes to point a. Key K_2 should not be conducting at this time (voltage $U_2 = 0$). However, transistor T_2 is triggered at the base-emitter junction since $U_1 > U_2$; the triggering of T_2 is equivalent to a drop in its back resistance, and it

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ACCESSION NR: AP5007783

begins to bypass load resistor R_H . When the load resistance is reduced without changing voltage U_1 , there is an increase in the residual voltage drop at saturated triode T_1 . This disadvantage is eliminated by using a second transistor. When a key which uses two triodes is saturated, one of the transistors is the key triode while the other is a compensator. Base currents I_{B1} and I_{B2} increase with the negative voltage between base and collector, key transistor T_1 is gradually saturated, i.e. its collector-emitter voltage decreases. With a considerable increase in the base current, the collector-emitter voltage reaches a minimum and begins to increase in approximation to a linear law. The sign of the collector-emitter voltage remains unchanged and is the same as that of voltage U_1 . At comparatively low I_{B3} currents, the sign of the collector-emitter voltage for transistor T_3 coincides with the sign of the residual voltage drop at T_1 . With a further increase in the base current, the absolute value of the collector-emitter voltage decreases, passing through zero and changing sign and then increases. These phenomena were studied in a key using P15 germanium transistors. This key is used in a code-to-voltage converter. Fig. 2 of the Enclosure shows the emitter-base voltage of the key triode, that of the compensating triode and the residual voltage drop between the emitters of transistors T_1 and T_3 as functions of the total base current. The transistors had a current amplification factor in a common base circuit $\alpha = 0.972$. It was found

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ACCESSION NR: AP5007783

that a total base current of very nearly 20 milliamps is necessary to obtain a residual voltage drop of no more than 10 millivolts regardless of the parameter dispersion for the P15 triode. Orig. art. has: 4 figures, 5 formulas.

ASSOCIATION: none

SUBMITTED: 00

NO REF SOV: 005

ENCL: 02

OTHER: 000

SUB CODE: EC

3/5

STRASHUN, Yu.P., inzh.

Some results of experimental investigations of triode switches.
Priborostroenie no.3:4-6 Mr '65. (MIRA 18:4)

L 57346-65 INT(4)/HSD-2/OWP(1) 14-4/Pg-4/Pk-4 IJP(c) BB/00/05
 ACCESSION NR: AT5014626 UR/0000/65/000/000/0079/0081
 681.142.324

AUTHOR: Fel'dman, B. Ya.; Strashun, Yu. P.; Malyavina, R. M.

TITLE: Magnetic parametric null-element

SOURCE: Vsesoyuznoye soveshchaniye po magnitnym elementam avtomatiki i vychislitel'noy tekhniki. 2th, Yerevan, 1961. Magnitnoye analogovyye elementy (Magnetic analog elements); doklady soveshchaniya. Moscow, Izd-vo Nauka, 1965, 79-R1

TOPIC TAGS: parametric null element, high speed null element, high output null element, magnetic null element

ABSTRACT: Current data elements are widely used in systems linking various operating objects with computers. The AUS (Aggregate Unified System) standardizes the current scale to a maximum value of 5 mA and this, in turn, demands the design of highly reliable and sensitive magnetic null-elements. In this paper, the authors designed and described a parametron-based magnetic null-element in which: 1) the sensitivity is somewhat smaller than that of null-elements consisting of magnetic amplifiers with second harmonic output and auxiliary resonant amplifiers (the Q-factor of which, however, limits the speed of the element);

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ACCESSION NR: AT5014626

2) the speed is higher than in magnetic amplifiers and may be raised up to 100-200 Kc; 3) switching is very simple and permits the joining of a large number of parametric null-elements (perturbation due to nonselected or semiselected cores are absent); 4) the output signal is generated on half the frequency relative to the power supply; this frequency is not within the frequency spectrum obtained during the pumping of the nonlinear element and can be easily separated; and 5) high intensity of the output signal and its significant purity make it possible to work with no further amplifier (or with a very simple one). Orig. art. has: 5 figures.

ASSOCIATION: None

SUBMITTED: 28Dec64

ENCL: 00

SUB CODE: DP

NO REF SOV: 001

OTHER: 00

Card 2/2

PASTER, I.D.; STRASHUNSKIY, A.M.; RODZEVICH, S.S., red.; ROZHIN, S.S., tekhn.
red.

[Standardized control of mechanical drawings] Normalisatsionnyi
kontrol' chertezhei. Moskva, Gos. izd-vo obor. promyshl., 1958.
(MIRA 11:9)
71 p. (Mechanical drawing—Standards)

PASTER, Iosif Davidovich; STRASHUNSKIY, Aleksandr Maksimovich;
BEKHTEREV, V.V., inzh., retsentsent; MYSHENSKIY, N.I.,
inzh., red.; KUREPINA, G.N., red. 1st-va; SECHETININA,
L.V., tekhn. red.

[Industrial standardization] Proizvodstvennaia normali-
zatsiia. Moskva, Mashgiz, 1963. 241 p. (MIRA 16:7)
(Standardization) (Simplification in industry)

~~SECRET~~ 1. [Strašický, J.]; VÁTSKY, M. [Vacek, M.]

Methods for analyzing the general morbidity of the population of
the Czechoslovak Republic. Gig. i san. 23 no.2:92 F '58. (MIRA 11:4)
(CZECHOSLOVAKIA--MEDICAL RECORDS)

STRAHL, P.

Do you already know about the further improvement of the AL-3 combine for
flax? . 294.
Defects of machinery during the harvest and methods of eliminating them. p. 255.
POLYMER: 1-2-1971, Praha, Vol. 9, no. 13, July 1955.

See: Monthly list of East European Accessions, (ASAL), 10, Vol. 4, no. 10, Oct. 1955,
Encl.

STRASIMIROV, D.; OGNJANOV, M.

The effect of the summation of stress factors of different forces on the quantity of steroid hormones in human urine.
Dokl. Bolg. akad. nauk 16 no.4:425-427 '63.

1. Vorgelegt von Akademienmitglied D. Orahovats.
(17-KETOSTEROIDS) (URINE) (STRESS)

STRASKRABA, Milan

Share of the national region in the productivity of two fish-
ponds in southern Bohemia. Rozprawy mat. CSAV 73 no.13:1-64
'63.

STRAHA, M.

"Preliminary Information on the Distribution of the Genus Gammarus in Czechoslovakia", P. 212, (VESTNIK, Vol. 17, No. 3, 1953, Praha, Czech.)

SO: Monthly List of East European Accessions, (FEAL), LC, Vol. 4, No. 3, Mar 1955, Uncl.

STANISLAV, IV.

Ziv. 1. v. 1. 1967; the most reliable source is a detailed study on
 74. [1. v. 1.] Praha, Státní pedagogický nakl. [1967] 166 p.
 (Economics for the first class) [An excellent textbook; a textbook for
 the first year of the course of the Faculty of Economics, University of
 Economics, Prague; a university textbook. 1st ed.]
 Not in ILP

S: List of List of East European Accessions (AL) 1, Vol. 1, no. 1, October 1967. Urel.

Discipline, ...

The terrestrial amphibol Talirus (Taliroides) alluandi Chevreux 1936 in
Czechoslovakia. p. 58. (Czechoslovakia; TALIR: PRIR DVAIDNY, Vol. 126, No. 1, 1957.
Prague, Czechoslovakia)

See: Monthly list of east European Accessions (EEA) 10, Vol. 4, No. 12, Dec 1957. Incl.

STRASKRABA, M.

Certain less-known Cladocera of the middle Elbe basin. p. 163.

CASOPIS; ODDIL PRIRODVEDNY. Praha, Czechoslovakia. Vol. 127, no. 2, 1958.

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no.1, January 1960.
Uncl.

BLIKHA, P.; HOVSEAN VA, L.; TRA-KRABA, M.

New methods of determining organic substances and biogenic elements in water and water organisms. Vestnik CSAV 73 no.3:17-400 16.

1. The first part of the document is a letter from the
Director of the Central Intelligence Agency to the
President of the United States. The letter is dated
January 1, 1961. The subject of the letter is
the proposed creation of a new agency, the
National Security Agency, to be known as the
National Security Agency. The letter is signed
by the Director of the Central Intelligence Agency,
John Edgar Hoover.

STRASKRABA, Vladimir, inz.; ZAPOROZEC, Alexandr, promovany geolog

On the importance of the 2d Hydrogeological Conference in
Ostrava. Geol pruzkum 5 no.5:144-145 My '63.

1. Uhelny pruzkum, n.p., Ostrava; Geologicky pruzkum, n.p.,
zavod stavebni geologie, Praha.

JETELOVA, Jarmila, promovana geoložka; KLIK, Stanislav, promovany geolog,
kandidat geologicko-mineralogických ved; SEMSKRAHA, Vladimír, inž.

Results of the Czechoslovak-Polish conference on joint problems
in deposit hydrogeology. Geol pruzkum 6 no.5:15. My '64.

1. Geologický pruzkum National Enterprise, Prague; Central
Geologic Institute; Uhelný pruzkum National Enterprise, Ostrava.

STRASKY, Drahoslav; KACIREK, Milan

Effect of tin on the structure and mechanical properties of gray
cast iron. Slevarenstvi 11 no.4:160-163 Ap '63.

1. Motor, n.p., Ceske Budejovice.

JIRU, Jiri; STRASLIPKA, Miloslav

Standards of fuel consumption for road machines. Siln doprava 11 no.2:
24-25 F '63.

1. Ustav normovani ve stavebnictvi.

11/10/55, 11.

Felgyepítéstudományi Szerle - Vol. 5, no. 3, Mar. 1955.

Pipeline construction without 'itches in the Soviet Union. p. 134.

SO: Monthly list of East European Accessions, (EPAL), LC, Vol. 4, No. 9, Sept. 1955
Uncl.

STRASSER, Ferenc

Provisional road with steel construction. Melyepitestud szemle 14.
no.6:258 Je '64.

Stressed sheet piles. Ibid.:289.

New type trench excavators. Ibid.:290.

Airfields. Ibid.:291.

Railroad construction in North Siberia. Ibid.:291.

1. Editorial board member, "Melyepitestudományi Szemle"

STRASZER, Ferenc

Prefabricated bridges in the Soviet Union. Melyepitestud
szemle 15 no.3:122 Mr '65.

New asphalt mixture for paving road surfaces. Ibid.:132

A 4,5 km long conveying belt. Ibid.:132

1. Editorial Board Member, "Melyepitestudományi Szemle."

STRASSER, K.

Yugoslavia (430)

Science - Serials

Diplonoda in Slovenia. In German. p. 13.
FRIRCDG LGVNS PAX PATE. Ljubljana.
Vol. 4, 1940.

East European Accessions List. Library of
Congress, Vol. 1, no. 13, November 1952.
UNCLASSIFIED.

LENDVAI, Jozsef, Dr.; STRASSER, Lazzlo, Dr.

Experiences with unified medical care based on geographical principles.
Nepégeszségügy JE no.7:165-170 July 57.

1. Kozleweny a fovarosi Peterfy Sandor utcai korhas-rendelointezetbol
(Igazgato-foorvos: Lendvai Jozsef dr.)

(HOSPITALS

in Hungary, problems of assigning patients by geographical
locations (Hun))

STRASSER, Laszlo, dr.

Present problem of training of the sub-professional medical personnel.
Hepageszegugy 43 no.2:49-52 P '62.

(EDUCATION MEDICAL)

STRASSER, Tibor

Industrial enterprises in Baranya County belonging to the ministries.
Pecsi musz szeml 5 no.1:3-7 Ja-P '60.

BEUFERT, J., ing.; 1949 I. Gm., ing.; STRASUN, Sonia

Reserves for increasing labor productivity. Constr. kuc
16 no. 776:2 21 N '64.

1. Institute of Building Research and Construction Economics
(for Beufert, Strasun).

175437. Marian (Wanizawa)

Evaluation of the cellulose market. Przegl papier 20
no. 4:106-110 Ap '64.

L 19340-65 LIT(c) Po-4/Po-4/Po-4/Pz-4/Pl-4 IJP(z)/ASD(a)-5/AFIC(p)/SSD/
 EHEH(a)/AFICIP/AFIC(c)/PAEN(d)/ESD(dp) BC
 ACCESSION NR: AT4049216 P/2519/64/000/005/0591/0598

AUTHOR: Straszak, A. (Warsaw); Gutenbaum, J. (Warsaw)

TITLE: The synthesis of a self-stabilizing loop of a certain adap-
 tive servomechanism controlled by changing the parameters

SOURCE: Polska Akademia Nauk. Instytut Podstawowych Problemow
 Techniki. Zagadnienia drzan nieliniowych, no. 5, 1964. Druga
 Konferencja Drzan Nieliniowych (Second Conference on Nonlinear
 Vibrations), Warsaw, Sept. 18-21, 1962, 591-598

TOPIC TAGS: system synthesis, automatic control system, self
 stabilizing loop, adaptive servomechanism, adaptive loop, parameter
 adjustment, quality criterion, Lyapunov method

ABSTRACT: In the case of automatic control systems which operate on
 a quality criterion which does not guarantee stable operation of the
 system, it is necessary to add an additional adaptive loop to the
 system. This article presents the operation of and a method for
 synthesizing a stabilizing adaptive loop in a control system in which

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L 18340-65

ACCESSION NR: AT4049216

the motor is controlled by modulating the pulse width or changing the resistance of the rotor circuit. A modification of the second method of Lyapunov is used as the stability criterion. Conditions are chosen such that the stability of the system can be judged by means of readily measurable quantities, such as the angular velocity or the angular position of the controlled variable. In case the stability conditions are not satisfied, the stabilizing circuitry acts to decrease the amplification factor. Orig. art. has: 5 figures.

ASSOCIATION: Institute of Automation, Polish Academy of Sciences,
Warsaw

SUBMITTED: 26Sep62

ENCL: 00

SUB CODE: IE, DP

NO REF SOV: 000

OTHER: 000

Cord 2/2

L 21857-65 EWT(d)/EPF(n)-2 Po-4/Pq-4/Pg-4/Pu-4/Fk-4/P1-4 IJP(c)/ASD(a)-5/
SSD/ASD(f)-3/AFEDC/AFMD(p)/AFETR/AFTC(p)/RAEM(a)/RAEM(d)/ESD(dp) WY/BC
ACCESSION NR: AP4046460 P/0031/64/009/002/0167/0177

AUTHOR: Straszak, A. (Strashak, A.)

TITLE: A particular problem of supervisory control

SOURCE: Archiwum automatyki i telmechaniki, v. 9, no. 2, 1964, 167-177

TOPIC TAGS: automation, automatic control system, supervisory control, control theory, optimal control system

ABSTRACT: The paper formulates the problem of supervisory control, the purpose of which is to optimize local optimal control systems having a common source of control signals. The problem of an optimal control system as an object of control is investigated analytically and the conclusion reached confirms the expectation that an optimal control system can be an object of supervisory control provided there is a possibility of appropriately limiting the control signal. This means that by employing a supervisory control it is possible to improve the overall control without the necessity of changing to a system having a single multi-dimensional controller. It is noted that if, for example, the supervisory control is limited to the control of local systems only at the initial moments, then the objects of supervisory control will show an inertial-free characteristic, thus making it possible to achieve optimization rapidly as well as to use a single system of supervisory

Cord 1/2

L 21857-65

ACCESSION NR: AP4046460

control over many assemblies of overall control. Since, in a supervisory control, there are many local control systems, three new criteria of quality are introduced (summation criterion, minimax criterion, and equal-cost criterion) and discussed. Two examples of supervisory control are discussed. One example can be reduced to a problem of linear programming which can be solved using the simplex method. In the other example a very simple unit of overall control consisting of two control systems is discussed. The local systems consist of the same integrating objects which have transfer-type controllers. In this example the problem of supervisory control is formulated as a problem of nonlinear programming. The relationship between supervisory control and multi-dimensional control is briefly discussed. Orig. art. has: 6 figures and 48 formulas.

ASSOCIATION: Zaklad Teorii Sterowania Instytutu Automatyki PAN (Department of Control Theory, Institute of Automation, PAN)

SUBMITTED: 05Feb64

ENCL: 00

SUB CODE: IE

NO REF SOV: 001

OTHER: 007

Card 2/2

28(1)

307/101-50-4-3/28

AUTHOR: Strashak, Andzhey, Post-graduate Student

TITLE: Synthesis of Some Optimum Systems of Automatic Control
(Sintez nekotorykh optimal'nykh sistem avtomaticheskogo upravleniya)

PERIODICAL: Nauchnyye doklady vysshey shkoly. Elektromekhanika i avtomatika. 1958, Nr 4, pp 13-19 (USSR)

ABSTRACT: The comprehension of an optimum process was introduced for the first time into the theory of automatic control by A. A. Fel'dbaum (Ref 1). Here a method is proposed for the synthesis of processes operating differently from optimum processes and becoming optimum processes. The purpose of the stabilization- and servo systems is the best possible approximation of the steered coordinates to the steering coordinates. Therefore this problem is equivalent to that of the approximation of a function. It is shown that it is necessary and sufficient for the determination of an optimum process to know only the functional which determines the quality of the steering and of the limit. But it is not

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SOV/161-50-4-3/28

Synthesis of Some Optimum Systems of Automatic Control

necessary to know exactly the dynamics of the object . Hence it follows that the concerning optimum process is equal for a series of objects under the condition that the limits are constant. Therefore the synthesis of such systems is investigated here, at which the limits imposed on the system do not alter. It is shown that in this case the optimum operation can be realized by using a model of an optimum process, or an extrapolator. At this a continuous solution of the optimizing problem by means of the search-method or an other method is not necessary. Finally an example is given. There are 5 figures and 14 references, 6 of which are Soviet.

ASSOCIATION: Kafedra avtomatiki, telemekhaniki i matematicheskikh mashin
Moskovskogo energeticheskogo instituta
(Chair of Automation, Telomechanics, and Mathematical
Machines of the Moscow Institute of Power Engineering)

Card 2/3

STRASHAK, A., Candidate Tech Sci (diss) -- "Some problems in the theory and synthesis of self-optimizing systems of automatic control". Moscow, 1959. 12 pp (Min Higher Educ USSR, Moscow Order of Lenin Power Engineering Inst), 150 copies (KL, No 24, 1959, 141)

S/044/62/000/005/060/072
C111/C444

AUTHOR: Straszak, A.
TITLE: Theory of scanning controls
PERIODICAL: Referativnyi zhurnal, Matematika, no. 5, 1962, 62,
abstract 5V545. ("Arch. automat. i telemekh.", 1961, 6,
no. 2-3, 217-234)
TEXT: A detailed survey of the lectures on scanning controls
which were held on the first congress of the IFAC. Considered are lec-
tures on the theory of linear scanning systems, on statistic methods
for their calculation, on optimal systems, on the theory of non-linear
systems and on digital systems.
[Abstracter's note: Complete translation.]

Card 1/1

STRASZAK, A.A., dr ins.; GUTENBAUM, J., mgr ins.

"Outlines of operative automatic control" by Ervin Samal.
Reviewed by A.A.Strassak, J.Gutenbaum. Pomlary 8 no.8:396 Ag
162.

L 18916-66 EPF(n)-2/EmP(1) JJP(c) WJ/BC

ACC NR: AP5023974

SOURCE CODE: PO/0031/65/010/002/0171/0188

AUTHOR: Straszak, A.—Strashak, A.

ORG: Department of Control Theory, Institute of Automation, Polish Academy of Sciences (Zaklad teorii sterowania Instytutu automatyki PAN)

TITLE: The partitioning problem in a large-scale multivariable control system

SOURCE: Archivum automatyki i telemechaniki, v. 10, no. 2, 1965, 171-188

TOPIC TAGS: automatic control technology, linear automatic control, nonlinear automatic control, optimal automatic control

ABSTRACT: An optimal control problem for a large-scale multivariable control system was investigated. The basic difference between the optimal control problem in a multivariable control system and the optimal control problem in a large-scale multivariable control system is that in the latter the "control algorithm realization cost index" must be introduced. An analytical expression for this kind of constraint was obtained. For a linear optimal controller this cost index may be expressed as: $K = nW + n^2P$, where n is the dimension of the state vector, and W and P are parameters. In general, K is a function of n and structure. Minimization of the cost index K by aggregation and partitioning of variables is introduced. Optimal aggregation and partitioning for a linear multivariable control system is obtained and certain simple examples are described. Orig. art. has: 14 figures. [Based on author's abstract.]

Cord 1/2

[NT]

L 18816-66

ACC NR: AP5023974

SUB CODE: 09, 13/ SUBM DATE: 03Feb65/ ORIG REF: 001/ OTH REF: 003/

Cord 212 *AW*

STRASZAWSKI, T.

Remarks on the new smoked-meat plant in Poznan.

p. 9
Vol. 7, no. 7, July 1955
GOSPODARKA MIESNA
Warsaw

SO: Monthly list of East European Accessions (REAL), LC, VOL. 5 no. 2
Feb. 1956

SIPAS.ELICZ, L.

The suburban area of Lodz, p. 182. (PRZEGLED GEOGRAFICZNY, POLISH GEOGRAPHICAL REVIEW, Warszawa, Vol. 26, no. 4, 1954.)

SC: Monthly list of East European Accessions, (EFAL, IC, Vol. 4, No. 2, Jan. 1955, Uncl.

UNITED STATES

UNITED STATES, I. The State and Distribution of ... in ... in the ... of the ...

Vol. 27, No. 3, 1957
CLAS ...
C ...
... ..

See, vol. 6, no. 3, March 1957

STANISLAW, I.

Location of places of employment and residence in the Lodz Industrial District. p. 75.
(FELIŚCJA GEOMATYKA. POLSKA GEOGRAFICZNA. Vol. 22, no. 4, 1956, Poland).

CC: Monthly List of East European Accessions (SEAL) IC, Vol. 6, no. 6, June 1957. Uncl.

REF ID: A66175

AUTHOR: Alekseyev, F.V.

TITLE: An International Conference on Problems of Division into Economic Regions

PERIODICAL: Izvestiya Akademiya Nauk SSSR, Seriya geograficheskaya, 1959, No 5, pp 117-120 (7532)

ABSTRACT: The above mentioned conference took place on 29 May - 1 June 1959 in Kasimierz Dolny (Poland).
 (7532). In the second part the following Polish geographers reported on different economic problems of division into economic regions: S. Badkova - on workers' commuting in the Krakow agglomeration; W. Dobrowolski - on the influence of industrialization on the formation of regions and on the types of inhabited centers; A. Gierga - on the analysis of the bases of principles of development of economic regions as shown by the example of study of the Lodz industrial district; A. Trabel - on the joint regions of passenger transportation in Poland; and E. Kasprzak - on the study of the sphere of influence of Polish small towns. Other reports were read by: Professor J. Jurek (Czechoslovakia) - on "Immigration Basis of Czech Towns"; M. Marinko (Bulgaria) on "Methods of Study of Economic Connections and Inter-regional Exchange"; A. Pilet (Czechoslovakia) - on "Problems of Development of Highly Developed Regions of the Ploest Region"; A. Szudi (Hungary) on a "Method of Delimitation of Agricultural Regions"; and A. Schmidt-Mann (G. Germany) on the "Problems of Regional Economics". Reports were also read by G. Pille (Belgium) and A. Baumbach (G. Germany). Finally the last report on "The Economic Region in Economic Geography and in Prospective Planning" was read by Professor A. Gutwinski in which he tried to establish basic elements of planning and to generalize some of the problems of division.

Card 3/3

STRASZEWICZ, Ludwik, docent, dr.

The Lodz industrial district as a subject of investigations of
economic geography. Przegł geogr. Suppl. to v.31:69-91 '59.
(KEAI 9:6)

1. Head of the Department of Economic Geography of the
Geographical Institute of the Lodz University, Lodz.
(Poland --Cities and towns)

STRASZEWICZ, Ludwik, doc., dr. (Lodz, ul. Orzeszkowej 9)

"Problems of the metropolis" edited by J.H.Schultze. Reviewed by
L.Straszewicz. Czasopismo Geograficzne 32 no.2:244-245 '61.

1. Lodz, Uniwersytet.

STRASZEWICZ, Ludwik

The Bulgarian textile industry. Przegl geogr 33 no.4:663-678 '61.

STRASZEWICZ, Ludwik (Lodz)

"Geography and action; introduction to applied geography" by H.
Hiloponeau. Reviewed by Ludwik Straszewicz. Czasop geograf 33
no.3:365-366 '62.

STRASZEWICZ, Ludwik

The French textile industry and its role in the national economy
of France. Przegl geogr 34 no.2:309-331 '62.

STRASZEWICZ, Ludwik

"Development of the construction of cities" by E. Braska. Reviewed
by Ludwik Straszewicz. Przegl geogr 34 no.3:607-608 '62.

STRASZEWICZ, Ludwik

Poland

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POL/19-8-3-6/10

AUTHOR: Straszewski, A. and Sliwiński, T.

TITLE: Analyzer for Calculating Induction Motors

PERIODICAL: Archiwum elektrotechniki, 1959, Vol 8, Nr 3, pp
469-498 (Poland)

ABSTRACT: The article describes an analyzer for calculating induction motors, built by the authors, under the direction of Professor, Doctor, Engineer Dubicki, B. A block scheme of the main circuit of this analyzer will be found in Fig 14 and a front, side and rear view in Fig 15. The performance of induction motors is usually calculated by analytic methods or graphical methods such as circle diagrams, on the basis of an equivalent circuit. These calculations tend to be complex in the case of motors with high bars in the rotor or double squirrel cage motors and even more so in case of single phase motors. The authors describe here the Menon network calculator built by the Westinghouse Corp. for calculating the performance. ✓

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Analyzer for Calculating Induction Motors

equivalent circuits of different kinds of induction motors. By measuring voltage, current and power in the circuit, the performance of the motor may be predicted. The equivalent circuit is made up of a decade set of resistances, reactances and capacitances, its characteristic feature being the substitution of reactances for capacitances and vice-versa. This makes for greater accuracy in calculation since losses in capacitors are much smaller than losses in choke coils. The authors at this point reproduce at length the results of preliminary measurements made on model circuits. They consider that these results fully justify their initial assumptions. An analysis of unit values of resistances and reactances was performed and the limits of the possible values of circuit constants for motors of different powers and voltages were determined. As far as the analyzer's power supply is concerned, a frequency of 500 cycles, ✓

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a voltage of 50 volts and a current of 25 milliamps. were chosen. Table 5 sums up the measurements made by the authors. A comparative study of these shows that the differences between them are small. In the opinion of the authors, the errors that do appear are to accounted for by the imperfection of the materials used especially for resistances and capacitances, also by the high power consumption of the measuring circuit. There is every reason to believe that once these shortcomings have been overcome, the calculations will be still more accurate. The article ends with descriptions of the general structure of the analyzer and of the power, measuring and modeling circuits. There are 5 tables, 21 layout diagrams, 1 graph and 14 references, 1 of which is Polish, 2 Soviet, 3 German and 8 English. ✓

SUBMITTED: December 17, 1958

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